

Amendment and Response

Applicant: Andrew Graham et al.

Serial No.: 10/533,550

Filed: November 17, 2005

Docket No.: I432.116.101/P29858

Title: VERTICALLY INTEGRATED FIELD-EFFECT TRANSISTOR ARRAY AND METHOD FOR FABRICATING (as amended)

IN THE TITLE

Please amend the title as follows:

**VERTICALLY INTEGRATED FIELD-EFFECT TRANSISTOR COMPONENT,
COMPONENT-ARRAY AND METHOD FOR FABRICATING**

Amendment and Response

Applicant: Andrew Graham et al.

Serial No.: 10/533,550

Filed: November 17, 2005

Docket No.: I432.116.101/P29858

Title: VERTICALLY INTEGRATED FIELD-EFFECT TRANSISTOR ARRAY AND METHOD FOR FABRICATING (as amended)

IN THE SPECIFICATION

Please replace the paragraph beginning at page 3, line 15, with the following rewritten paragraph:

Nanorods, also known as nanowires, are also used as an alternative to nanotubes, for example to carbon nanotubes, as nanostructures for an integrated circuit. By way of example, it is known from Johnson, JC, Yan, H, Schaller, RD, Haber, LH, Saykally, RJ, Yang, P (2001) “Single Nanowire Lasers” J. Phys. Chem. B, 105, 11387, 2001, (the “Johnson reference”), to form a tuft of vertical zinc oxide nanowires on a gold catalyst which has been applied to a sapphire substrate. It is in this way possible to produce protruding zinc oxide nanowires with diameters of approximately 40 nm to 150 nm and a density of approximately 10^3 wires per cm^2 . According to the concept which is known from the Johnson reference, tufts of zinc oxide nanowires are used as laser components.

Please replace the paragraph beginning at page 15, line 25, with the following rewritten paragraph:

The vertically integrated component 100 illustrated in Figure 1A has a first electrically conductive layer 101, a middle layer 102, formed partially from dielectric material, on the first electrically conductive layer 101, and a third electrically conductive layer ~~103~~105 on the middle layer 102. Furthermore, there is a carbon nanotube 104 which has been integrated in a via hole 108 introduced into the middle layer 102 and includes a first end portion 104a, which is coupled to the electrically conductive layer 101, and a second end portion 104b, which is coupled to the second electrically conductive layer 103.